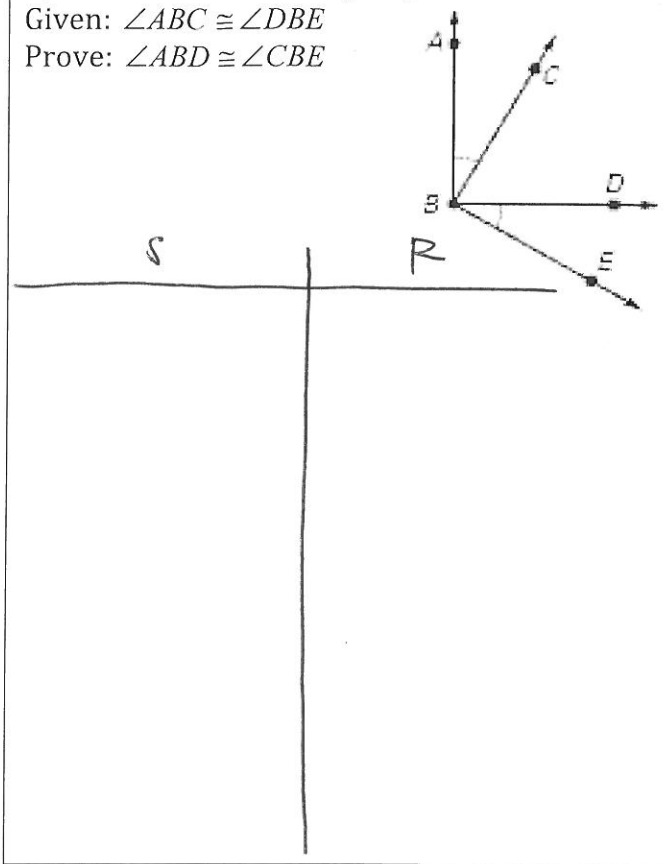
Homework 41 Form A
Two-column proofs

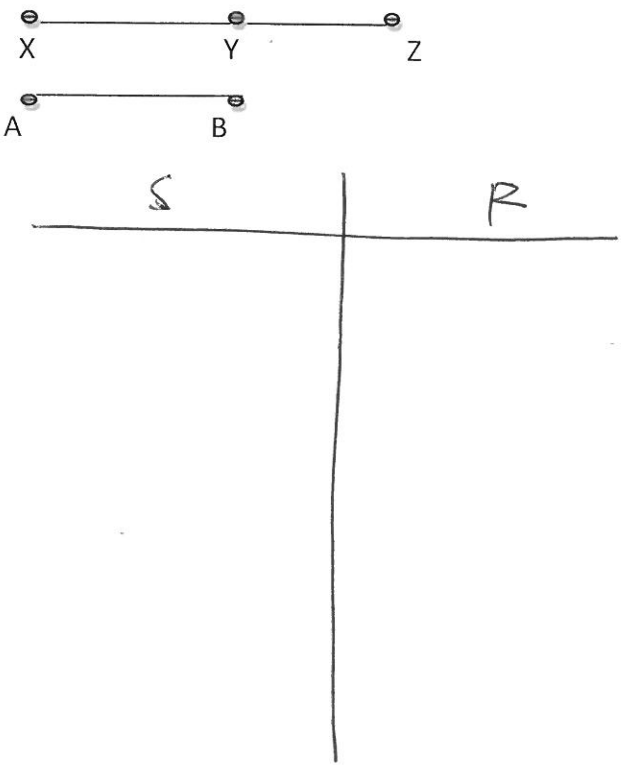
Name:_____
Period:___Date:_____

Failure to show all work and write in complete sentences will result in LaSalle!

1) Use the Addition Property
Given: $\angle ABC \cong \angle DBE$
Prove: $\angle ABD \cong \angle CBE$



2) Us the Substitution Property.
Given: XY = AB
Prove: AB + YZ = XZ



3) At what point does the line y = -2x + 2 cross the x-axis?

y is 0 when line crosses x-axis ← $0 = -2x + 2$

solve for x!

4) Solve for x in the following equation:

$y = x^2 + 3w$
$-3w \quad -3w$

5) What are the roots of the equation $x^2 - 3x = 18$?

$-18 \quad -18$
$x^2 - 3x - 18 = 0$

( ) ← $\frac{x}{x}$ $\frac{\square}{\square}$
( ) ← $\frac{x}{x}$

* set each equal to 0

6) x = {-2. 4} is a solution set for what quadratic equation?

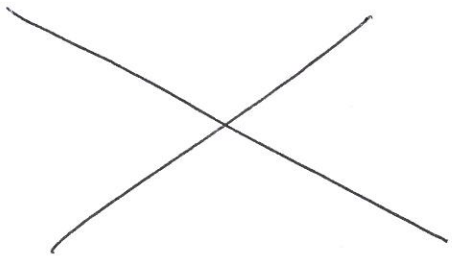
factors are Multiply!

$(x+2)(x-4)$

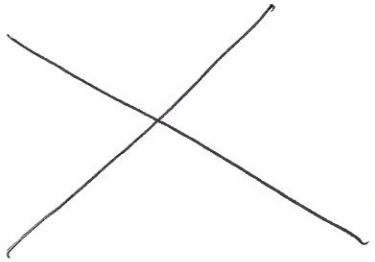
1) $\sqrt{\frac{3}{5x^3}} = \frac{\sqrt{3}}{\sqrt{5x^3}} = \frac{\quad}{\sqrt{\quad}} \cdot \frac{\sqrt{\quad}}{\sqrt{\quad}}$

2) $\sqrt{\frac{8x^2}{72}} = \frac{\sqrt{8x^2}}{\sqrt{72}} = \frac{\quad}{\sqrt{\quad}} \cdot \frac{\sqrt{\quad}}{\sqrt{\quad}}$

3) $\sqrt{\frac{5}{3x^5}}$



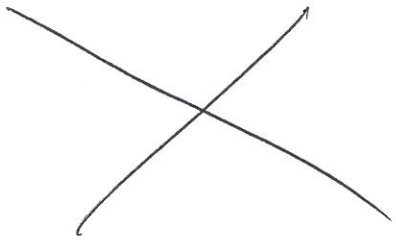
4) $\sqrt{\frac{4x^3}{52}}$



5) $\frac{2}{\sqrt{2x^2}} = \frac{2}{\sqrt{\quad}} \cdot \frac{\sqrt{\quad}}{\sqrt{\quad}}$

6) Simplify: $\frac{4}{\sqrt{3x^3}} = \frac{4}{\sqrt{\quad}} \cdot \frac{\sqrt{\quad}}{\sqrt{\quad}}$

6) $\frac{2}{\sqrt{5x^2}}$



7) $\frac{5}{\sqrt{7x^4}}$